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APPLICATION NO	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/751,193	12/31/2003	Everett B. Lee	42.P18035	2545
8791	7590 03/27/2	006	EXAMINER	
BLAKELY SOKOLOFF TAYLOR & ZAFMAN			ERDEM, FAZLI	
12400 WIL	SHIRE BOULEVARI)		
SEVENTH FLOOR			ART UNIT	PAPER NUMBER
LOS ANGELES, CA 90025-1030			2826	·-
			DATE MAILED: 03/27/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	
		10/751,193	LEE, EVERETT B.	
	Office Action Summary	Examiner	Art Unit	
		Fazli Erdem	2826	
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address	
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period we use to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	. the mailing date of this communication. (35 U.S.C. § 133).	
Status				
2a)⊠	Responsive to communication(s) filed on 21 De This action is FINAL. 2b) This Since this application is in condition for alloward closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro		
Dispositi	ion of Claims			
5)⊠ 6)⊠ 7)□ 8)□	Claim(s) 12-17 and 23-36 is/are pending in the 4a) Of the above claim(s) is/are withdraw Claim(s) 23-36 is/are allowed. Claim(s) 12-17 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.		
Applicati	ion Papers			
10)	The specification is objected to by the Examiner The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the o Replacement drawing sheet(s) including the correcti The oath or declaration is objected to by the Ex	epted or b) objected to by the Edrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).	
Priority ι	under 35 U.S.C. § 119			
a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priorical application from the International Bureau See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been receive n (PCT Rule 17.2(a)).	on No ed in this National Stage	
Attachmen	• •	_		
2) D Notic 3) D Inforr	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:		

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DETAILED ACTION

Allowable Subject Matter

1. Claims 23-36 allowed.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 1. Claims 12-17 rejected under 35 U.S.C. 103(a) as being unpatentable over Shin et al. (6,495,467) in view of Haskell (5,091,326) further in view of Lee et al. (6,197,639)

Regarding Claims 12-17, Shin et al. disclose a method of fabricating a non-volatile memory device where in claims 11, 18, 27 and 35 and in Fig. 9, interlayer dielectric layer 109, gate stack and active regions F1' are disclosed. Shin et al. fail to disclose the required slot/pattern in interlayer dielectric and the required bit lines.

However, Haskett discloses an EPROM element employing self-aligning process where in Fig. 4A, slots 32 are located in oxide 26 to have access to active layers 20 and 22.

Claims 11 and 21 of Haskett also disclose the required slot/dielectric configuration.

Furthermore, Lee et al. disclose a method for manufacturing NOR-type flash memory device where the required bit lines are disclosed in claims 1, 2, 7 and 9. In addition, Lee et al. disclose the required gate stack/bit line relationship in Figs. 1, 3, 8 and 9. In Figs. 1,

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3, 8 and 9, each of the plurality of gate stacks has a gate stack length and a gate stack width and the length of the bit line and a width approximate to the gate stack with.

It would have been obvious to one of having ordinary skill in the art at the time the invention was made to include the required pattern/slot in interlayer dielectric and the required bit lines in Shin et al. as taught by Haskell and Lee et al. respectively, in order to have a flash memory device with increased performance.

Conclusion

2. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fazli Erdem whose telephone number is (571) 272-1914. The examiner can normally be reached on M - F 8:00 - 5:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on (571) 272-1915. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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FE March 5, 2006